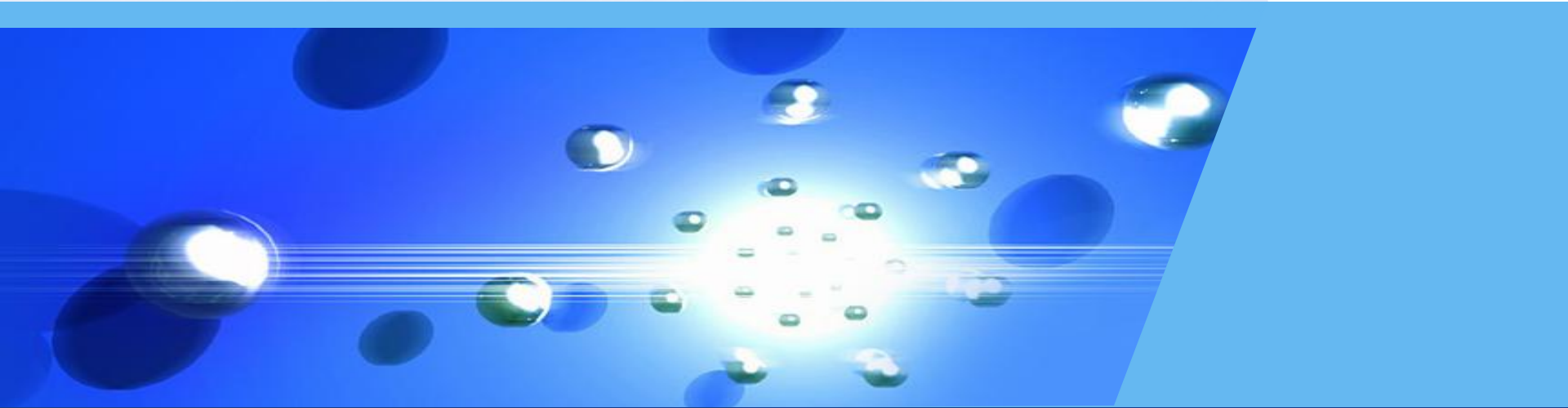


Professional RF R&D institutions



Shenzhen Deweima Communication Equipment Co., Ltd

Antenna Test Report

Project Information

1

Customer Name:LEFU

2

Project:CW309BLE-X01

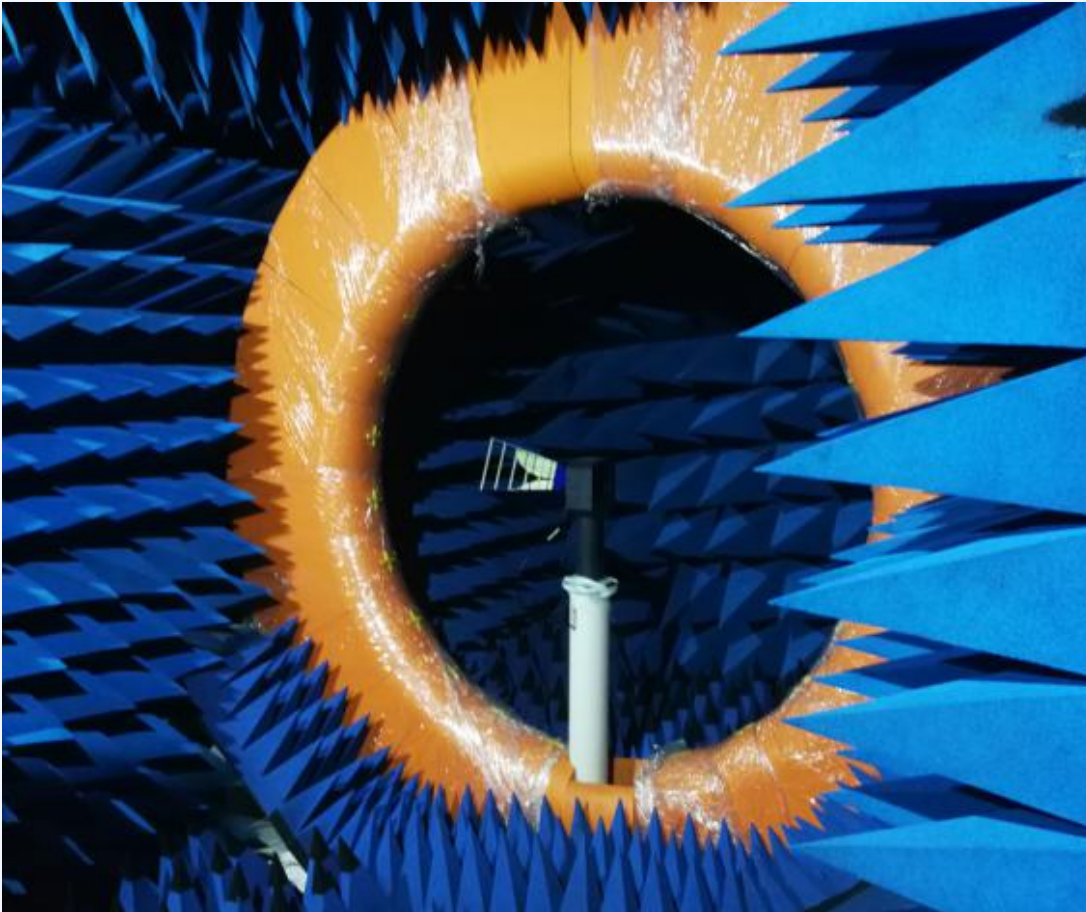
3

Frequency band: BT(2.4GHz~2.5GHz)

4

Remarks

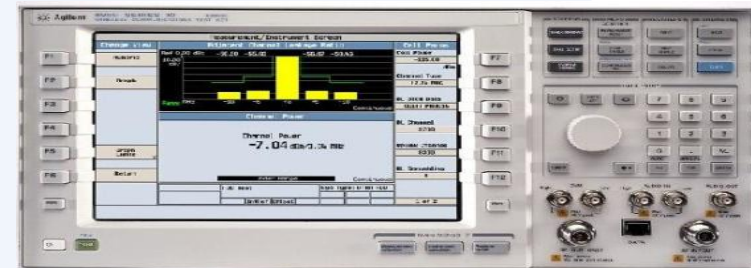
Test Instruments and Equipment



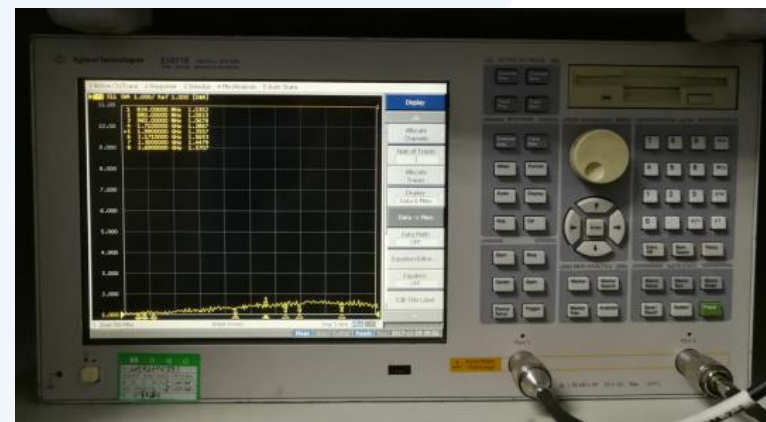
A 24-probe microwave chamber



R&S CMW500



Agilent E5515C



Agilent Technologies E5071B

Antenna Project Design and Debugging Instructions

Operating Frequency Band	BT:2400~2500MHz	Test Engineer		Version	V1.3
Overall Machine Diagram		Antenna Remarks Description			
		1. BT antenna type: IFA antenna 2. BT antenna matching circuit			
		Antenna Environmental Treatment			
		Debug and test according to the original state of the machine without adding other auxiliary materials.			

Instructions for BT Antenna Matching Circuit

BT Technology Parameters :

BT Frequency Range: 2400MHz-2500MHz

BT antenna type: PCB Antenna

Model: NA

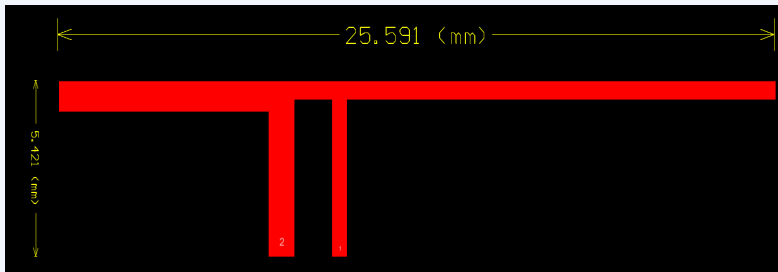
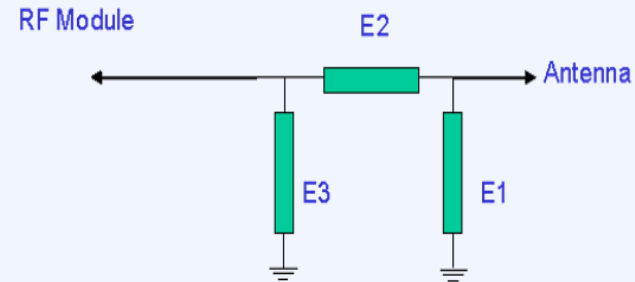
Company:www.lefu.cc

Address:3rd Floor, 6th Floor, Building A, No. 22 Huanping Road,
Gaoqiao Community, Pingdi Sub-district, Longgang District,
Shenzhen

City, Guangdong Province

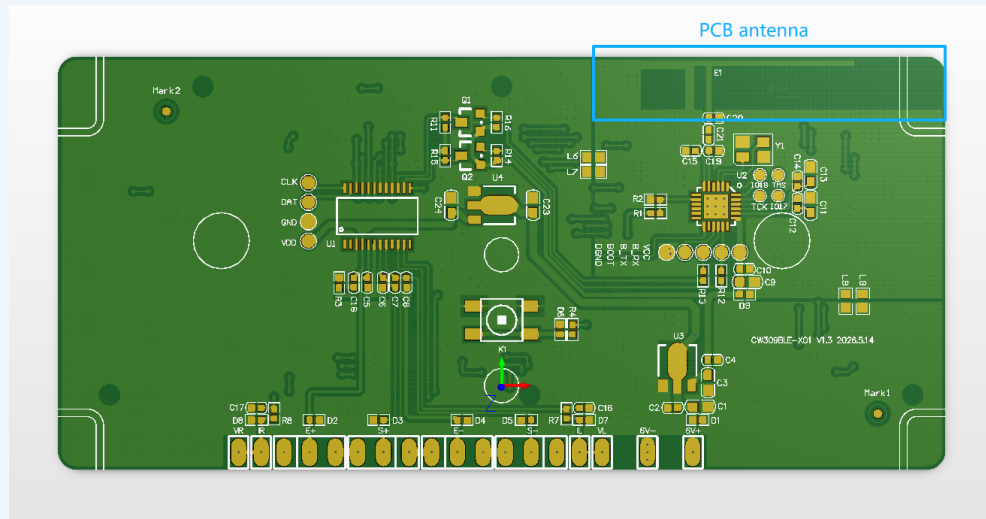
Operating Humidity: 85% R.H.MAX

Temperature Rating: 5°C~+40°C

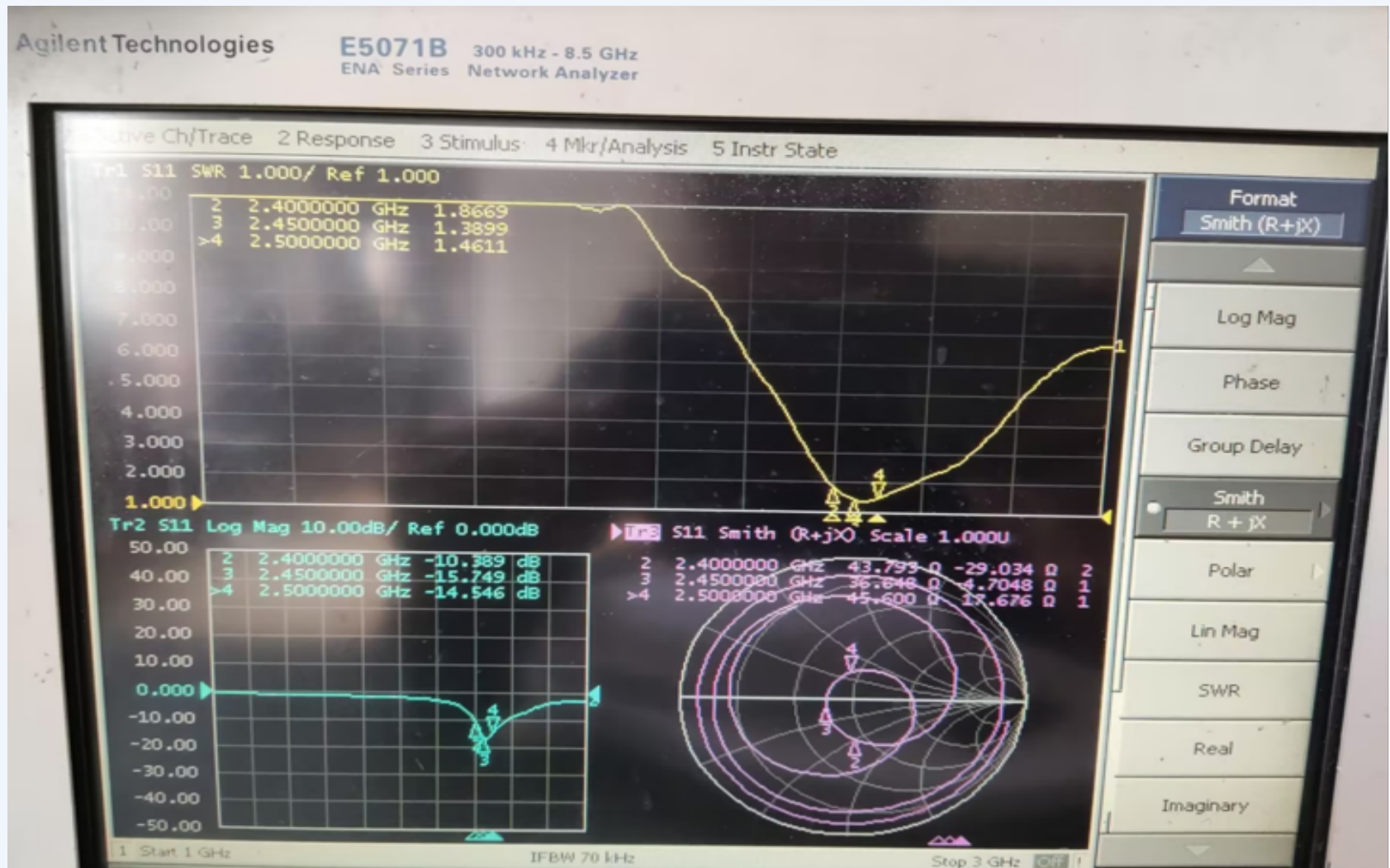


Element	Value	Vender
E1(0402)	NC	
E2(0402)	0Ω	
E3(0402)	NC	
E4(0402)		

BT antenna (on-board) position



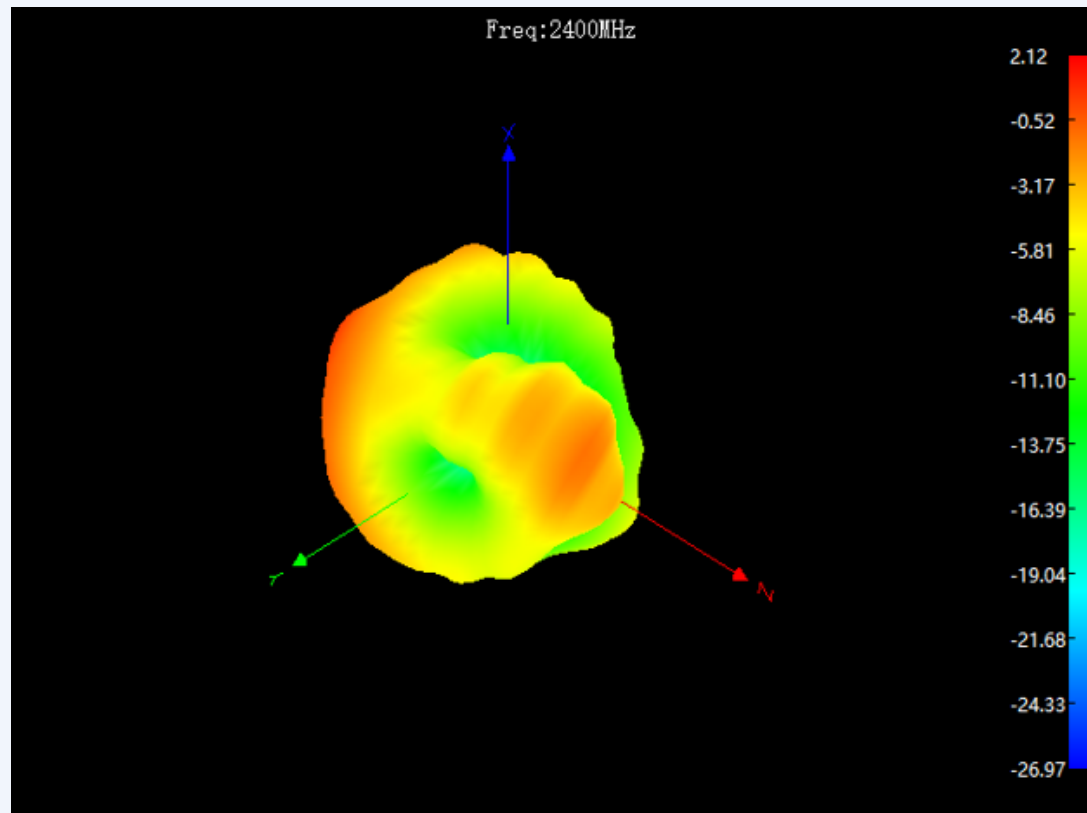
BT antenna SWR & Smith parameters



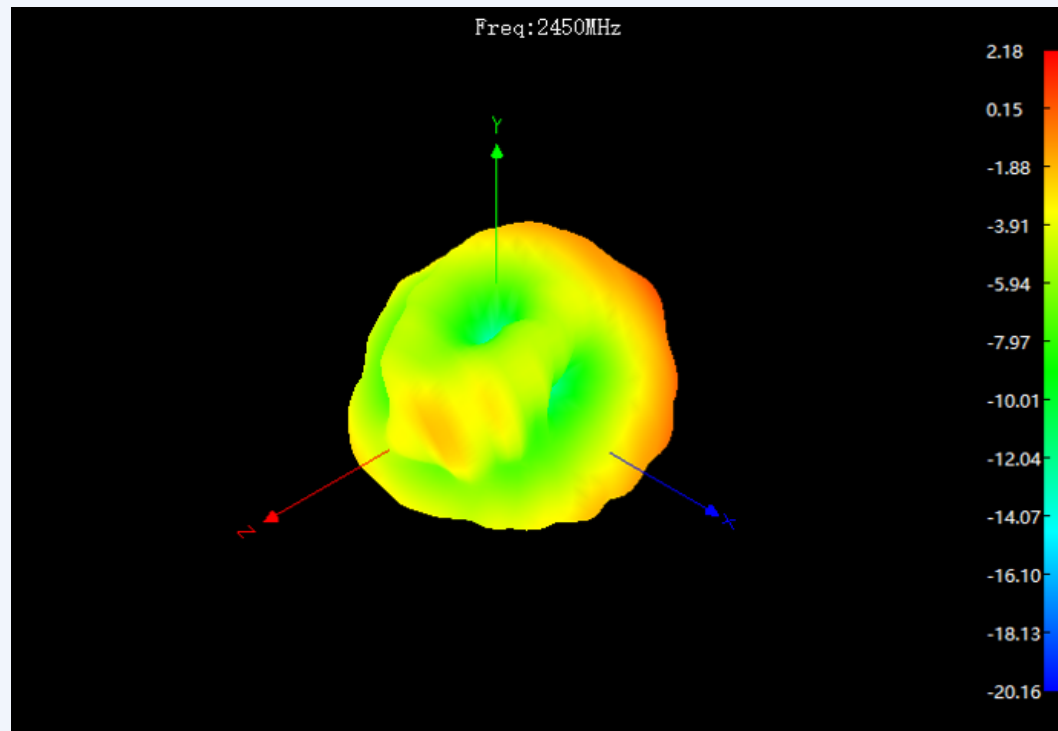
BT antenna gain and efficiency

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	40.27	2.12
2410	38.9	1.98
2420	41.02	2.59
2430	41.98	2.81
2440	41.11	2.08
2450	43.35	2.18
2460	44.36	2.26
2470	43.25	1.89
2480	43.85	1.89
2490	44.67	2.35
2500	41.59	1.87

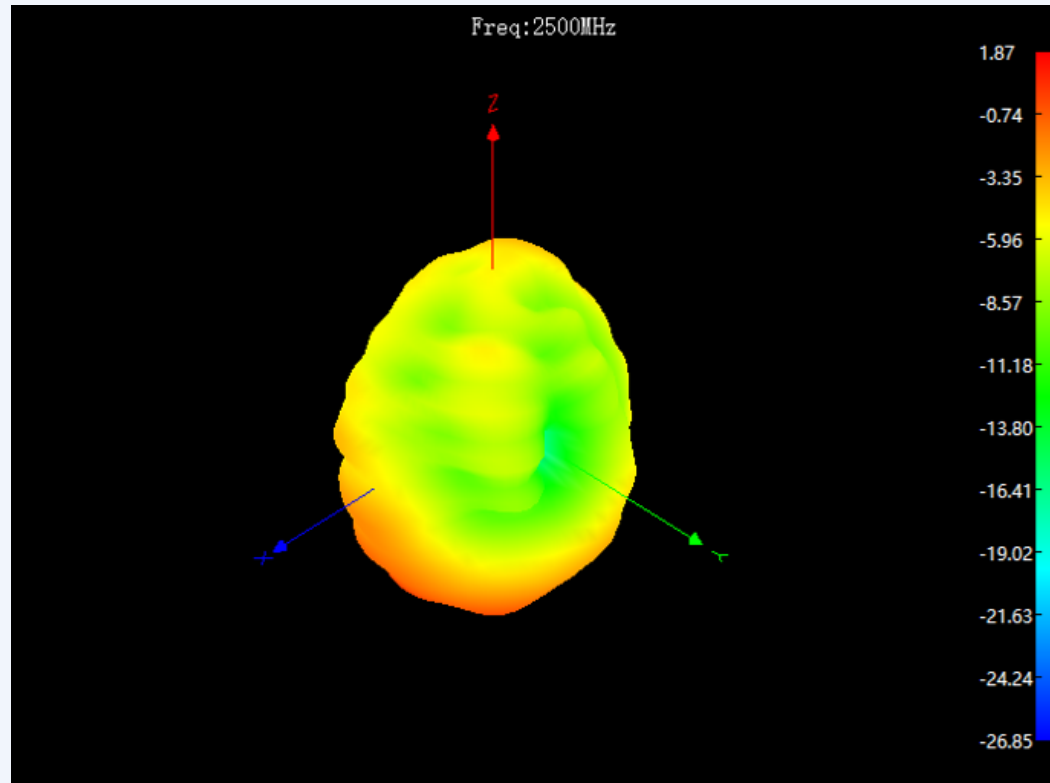
BT antenna pattern (2400MHz)

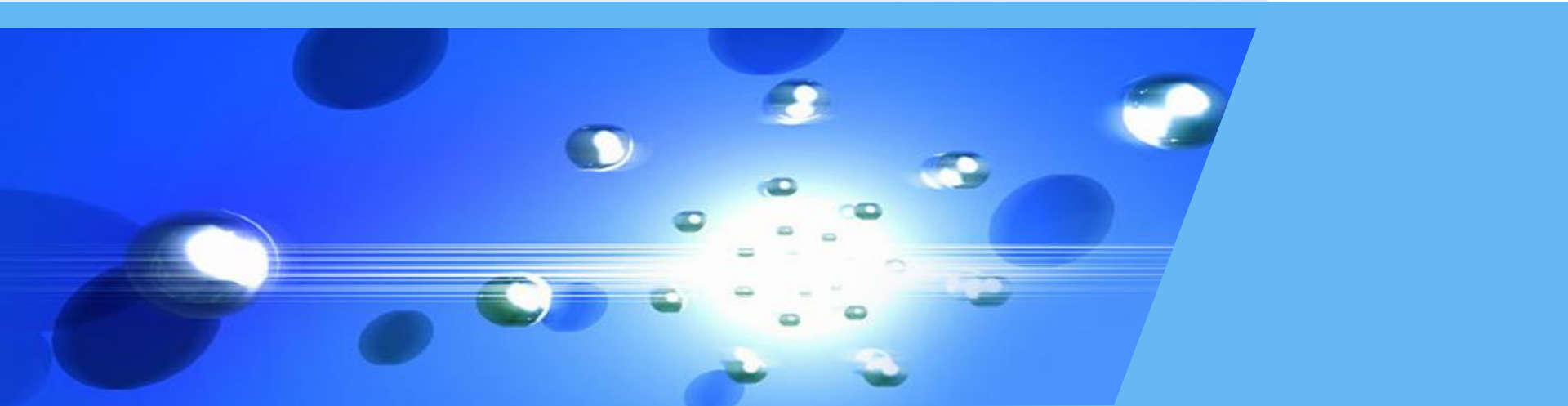


BT antenna pattern (2450MHz)



BT antenna pattern (2500MHz)





Thank You !